## SEQUENCE LISTING

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<110> Chen, Zhijian J.
<120> A KINASE CAPABLE OF SITE SPECIFIC
           PHOSPHORYLATION OF IkBa
<130> MPI96-031CP1DV1CPACN1M
<140> 10/052005
<141> 2002-01-17
<150> 09/406293
<151> 1999-09-24
<150> 08/825559
<151> 1997-03-19
<150> 08/616499
<151> 1996-03-19
<160> 9
<170> FastSEQ for Windows Version 4.0
<170> PatentIn Release #1.0, Version #1.30
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<212> DNA
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Xaa Tyr Val Glu Xaa Glu Arg
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Xaa Xaa Glu Val Xaa Glu Thr Xaa Xaa Ser Xaa Glu Lys
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Xaa Phe Thr Thr Met Glu Xaa Met Arg
                 5
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Thr Tyr His Ala Leu Ser Asn Leu Pro Lys
                 5
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<211> 404
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<222> (1)...(404)
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)

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cggacggcgg ctcggagcgg gctgacggcc gcatcgtcaa gatggaggtg gactacagcg 120
ccacggtgga tcagcgccta cccgagtgtg cgaagtatgc caaggaagga agacttcaag 180
aagtcattga aaccettete tetetggaaa ageagaeteg taetgettee gatatggtat 240
cgacatcccg tatcttagtt gcagtagtga agntgtgcta tgaggctaaa gaatgggatt 300
tacttaatta aaaatattat tgctttttgt ccaaaaggcg gagtcaagtt aaaaacaagc 360
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ccctgagcaa cctgccgaaa gcccgagctg ccttaacttc ttctcgaacc acagcaaatg 180
ccatctactg ccccctaaat tgcaggccac cttggacatg cagtcgggta ttatccatgc 240
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Gly Leu Asp Ser Met Lys Asp Glu Glu Tyr Glu Gln Met Val Lys Glu
                            40
Leu Gln Glu Ile Arg Leu Glu Pro Gln Glu Val Pro Arg Gly Ser Glu
                        55
                                             60
Pro Trp Lys Gln Gln Leu Thr Glu Asp Gly Asp Ser Phe Leu His Leu
                    70
                                         75
Ala Ile Ile His Glu Glu Lys Ala Leu Thr Met Glu Val Ile Arg Gln
                                     90
                85
Val Lys Gly Asp Leu Ala Phe Leu Asn Phe Gln Asn Asn Leu Gln Gln
            100
                                105
                                                     110
Thr Pro Leu His Leu Ala Val Ile Thr Asn Gln Pro Glu Ile Ala Glu
                                                 125
                            120
Ala Leu Leu Gly Ala Gly Cys Asp Pro Glu Leu Arg Asp Phe Arg Gly
    130
                        135
                                             140
Asn Thr Pro Leu His Leu Ala Cys Glu Gln Gly Cys Leu Ala Ser Val
                    150
                                         155
Gly Val Leu Thr Gln Ser Cys Thr Thr Pro His Leu His Ser Ile Leu
                165
                                     170
                                                         175
Lys Ala Thr Asn Tyr Asn Gly His Thr Cys Leu His Leu Ala Ser Ile
                                185
            180
                                                     190
His Gly Tyr Leu Gly Ile Val Glu Leu Leu Val Ser Leu Gly Ala Asp
        195
                            200
                                                 205
Val Asn Ala Gln Glu Pro Cys Asn Gly Arg Thr Ala Leu His Leu Ala
                        215
                                             220
Val Asp Leu Gln Asn Pro Asp Leu Val Ser Leu Leu Leu Lys Cys Gly
225
                    230
                                         235
Ala Asp Val Asn Arg Val Thr Tyr Gln Gly Tyr Ser Pro Tyr Gln Leu
                                     250
                245
Thr Trp Gly Arg Pro Ser Thr Arg Ile Gln Gln Leu Gly Gln Leu
            260
                                265
                                                     270
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Thr Leu Glu Asn Leu Gln Met Leu Pro Glu Ser Glu Asp Glu Glu Ser 275

Tyr Asp Thr Glu Ser Glu Phe Thr Glu Phe Thr Glu Asp Glu Leu Pro 290

Tyr Asp Asp Cys Val Phe Gly Gly Gln Arg Leu Thr Leu 305

305